CONSTRUCTION PROJECTS START TO FINISH

From Plans to Patients

August 2024

DISCLOSURES

• I am retiring at the end of the year!



LEARNING OUTCOMES

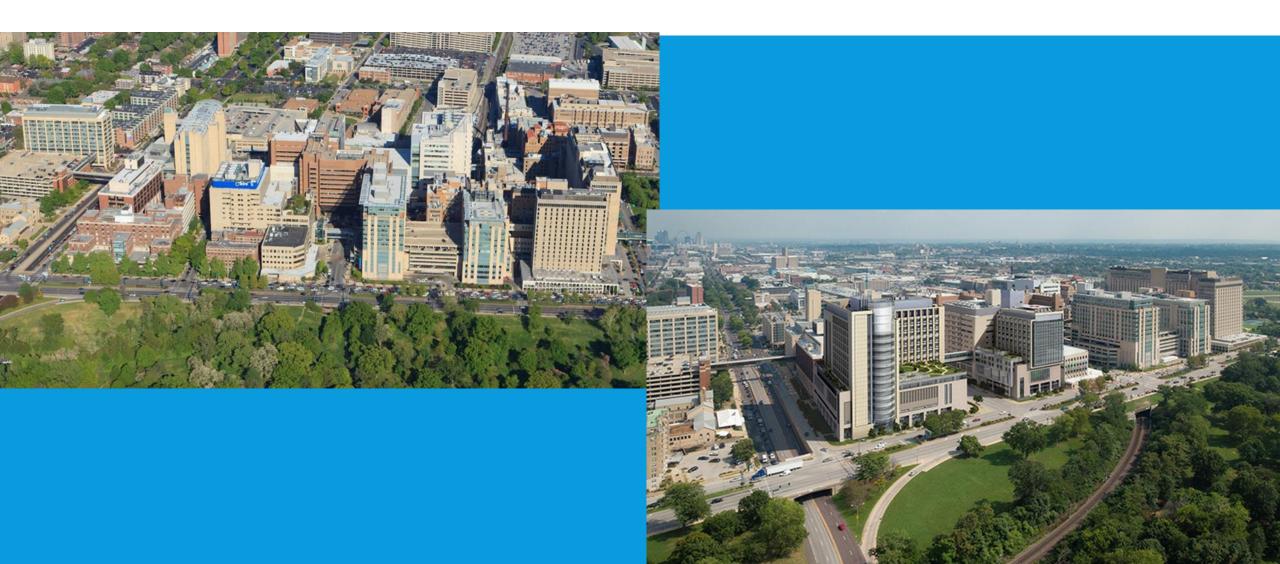
- Describe rationale for Infection Prevention involvement very early in the project
- Identify key markings on construction drawings
- Utilize patient safety and infection prevention knowledge to address unexpected incidents

WHO AM I?

- RN-1985
- BS Health Care Leadership 1999
- Infection Prevention 2003
- CIC certified 2005, 2010, 2015, 2020
- FAPIC 2016
- President of local ASHE chapter 2020, 2021, 2024
- Member of the FGI Guidelines 2026 revision team



BARNES-JEWISH HOSPITAL – ST. LOUIS, MO

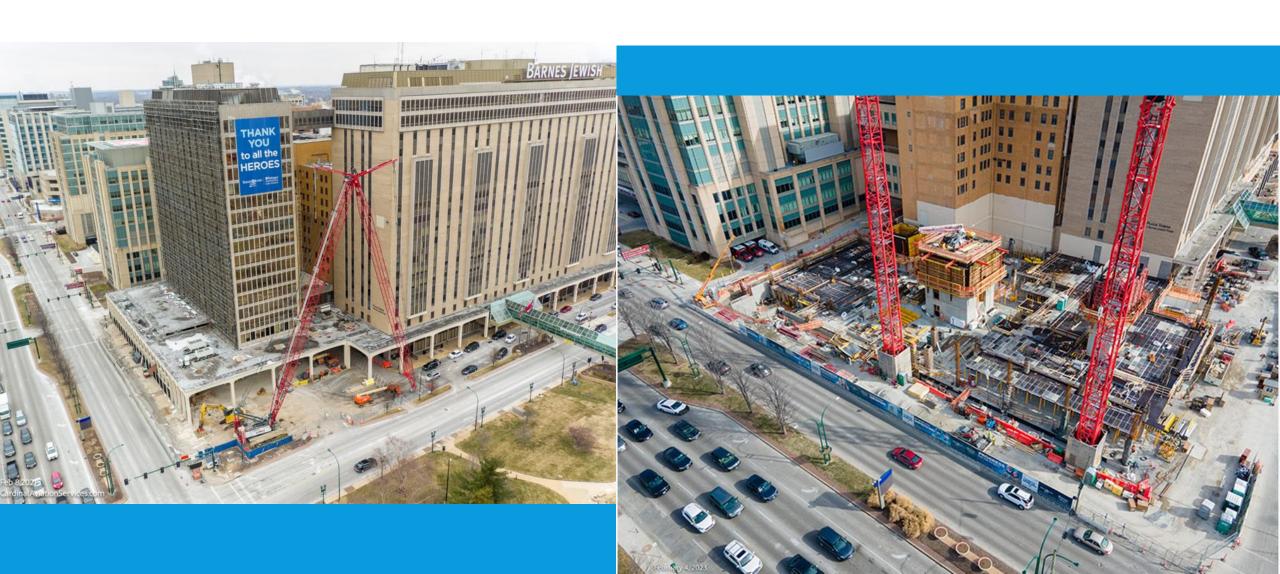


AND SINCE THE LAST TIME WE SPOKE





QUEENY IS HERE – NOW IT'S GONE



QUEENY IS GONE – NEW TOWER COMING BACK









PROJECT ORGANIZATION AND STAGES

- Feasibility
- Schematic design (SD)
- Design development (DD)
- Construction documents (CD)
- Construction
- Commissioning

FEASIBILITY

- Can this be done?
- Work-flow evaluation
- All rooms
- Ante rooms
- Clean to dirty flow
- Eliminate extra work
- Eliminate non-value-added items (not value engineering)
- Strengths and weaknesses
- Costs

FEASIBILITY

- Does is meet codes and standards
 - AHJ
 - FGI
 - ASHRAE
 - ASHE
 - APIC

FUNCTIONAL PROGRAM

- Owner advises architect of what desired outcome of project is
- Detailed list of interior and exterior spaces required for support of the project
 Addresses human, technical and building resources necessary
- Architect then starts designing
 - Can all of it fit in the envelope

FUNCTIONAL PROGRAM



BJC HealthCare - BJH

TKH

Barnes Jewish Hospital Rand Johnson Decant Hospitalists – Rand Johnson Project No. 21120-04-00 BJC Project No. 21C707 September 21, 2021 Rev 3.14.2022

Functional Program

Description of Services/Model of Care:

Hospitalists provide care to hospitalized patients at Barnes-Jewish Hospital on both the North and South Campus inpatient units, consult in the Emergency Room, and provide procedures in outpatient areas of the hospital. As part of this patient care, Hospitalists provide education to medical students, interns, and residents through bedside teaching and structured lectures.

Existing and Proposed Location:

Existing: ML Rand Johnson at 5,057 dgsf - relocation required

ML Barnes Administration at 455 dgsf – relocation required

ML Service Bldg. Suites at 2,003 dgsf - planned to remain

ML Peters Building at 652 dgsf – planned to remain

Proposed: TBD

Patient Population:

Local and regional acutely ill patients requiring hospitalization that are admitted through the emergency room to the various medicine designated patient care units/beds on both North and South campus, including Oncology and Bone Marrow Transplant beds on floors 8800 through 12800 in the Parkview Tower.

Current Volumes vs. Projected Volumes (including assumptions):

The Division of Hospital Medicine performs admission services, continuing care visits, discharges, consults, and procedures across the campus, totaling ~110,000 annual visits. As we discuss further opportunities across the campus, we expect this could increase year over year by ~5,000 visits. On average, the service cares for >350 patients per day.

Hours of Operation/Shifts/Visiting Hours:

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
Clinical Ops	24/7/365	24/7/365	24/7/365	24/7/365	24/7/365	24/7/365	24/7/365
Admin Ops	7a-6p	7a-6p	7a-6p	7a-6p	7a-6p		

Number of Staff per Shift and Job Descriptions:

Based on Busiest Shift: CURRENT					
Name	Title	Computer Use - % of Shift	Dedicated or Touch-Down?		
Departmental Sta	Departmental Staff				
Information has					
been omitted					
with this					
version of the					
Functional					

BJC HealthCare

Program – Not Applicable			
Ancillary Staff			
	# of Dedicated	# of Touch-down stations	
Busiest Shift	stations needed	needed	
	# of Dedicated	# of Touch-down stations	
Lightest Shift	stations needed	needed	
Designed to	# of Dedicated	# of Touch-down stations	
Typical Shift	stations needed	needed	

Circulation / Flow:

Patient: N/A

Visitor: Educational, Research, and Professional collaborators/visitors will require daily access.

Nurse: N/A

Physician/Resident: Faculty of the division will require 24/7 access. Residents on service with faculty will also require daily access.

Ancillary Staff (i.e. Dietary, PT, RT, Lab, Pharmacy, Imaging, Etc.): N/A

Materials Management/House Keeping/Materials/Supplies/Soiled: Shred-It – once weekly to any separate area. Housekeeping – 2x per day Mon-Fri, 1x day on weekends.

Key Adjacencies:

Internal: Medicine Units and/or Emergency Department

External:

Communication/Information Systems:

Identify any of the following specialty equipment/software which will be required:

Vocera/Spectralink

Cisco wireless VOIP Phones: Yes

Cell Phone (business use): Yes. All faculty have corporate liable devices.

Video Conferencing: Yes. Division has Vaddio camera/speaker system.

Patient Touch Technology (PTT):

Applications (SIS, Metavision, Provation, Mosaig, Cerner, Dictation, HCLL, etc.):

Require WUSM data lines.

Education or Training Initiatives:

- Simulation Training Room
- Project Rooms to facilitate small group meetings

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Anticipated Changes/Trends:

New Services or Expansion of Existing Services

- Anticipate that the clinical footprint of the division will continue to grow year over year.
 Planning and Identifying space to accommodate, at least, the next decade will be crucial to the space identification criteria.
- Medical Student and Resident Education space needed
- Development of quality improvement program with associated rooms

Changes in Healthcare Delivery or Technology

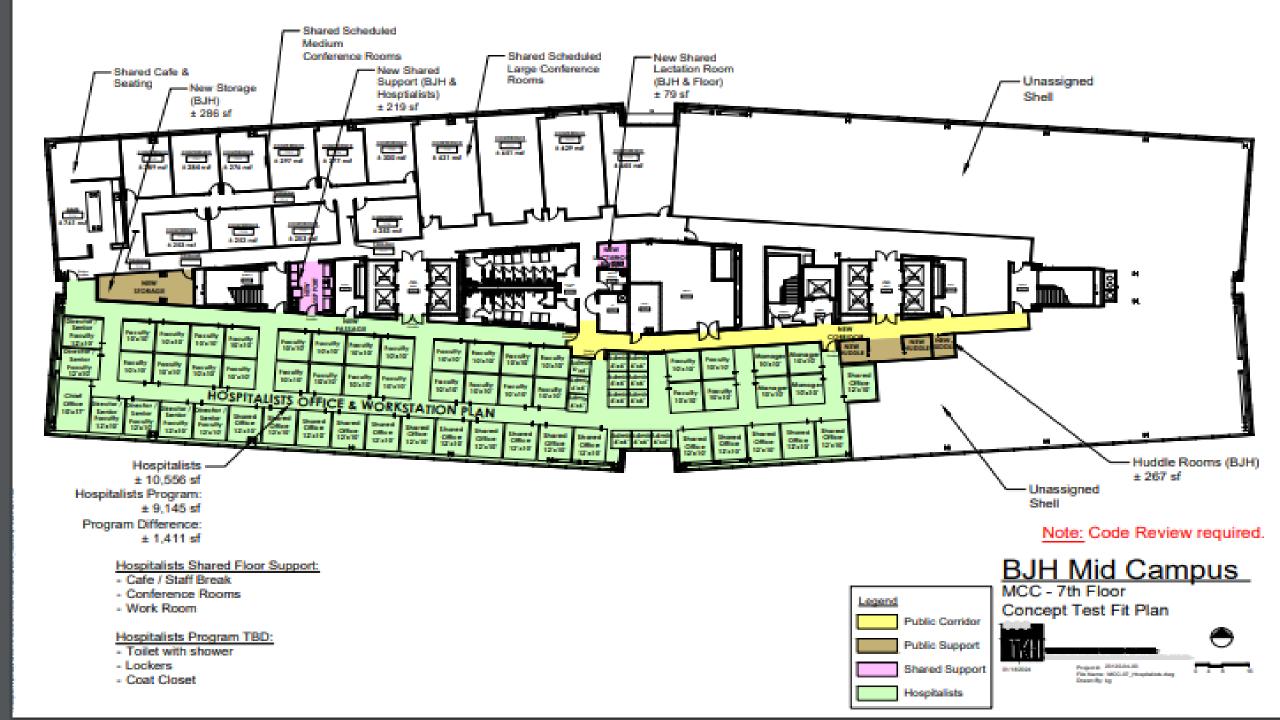
- Telemedicine
- .

Additional Design Criteria/Considerations:

It is critical that the division's primary office suite follows an academic office setting with individual offices for senior faculty and pertinent leaders, as well as a welcoming, professional, and design-affected aesthetic. See: Oncology entry area in MCC. Suitable office space is to be furnished by the Hospital per the master hospitalist agreement. Windows preferred.

Protected Health Information, Human Resource, and Financial data all require secure discussion areas, and are best facilitated by the existence of private offices as several individuals hold different roles that impact these key areas.

This document represents the agreement on the functional information provided by you:			
Sign:	Date:		
Sign:	Date:		
Administrator: Date:			



SCHEMATIC DESIGN (SD)

- Architect consults with owner to determine project goals and requirements
- Architectural program defines the required functions of the project (functional program)
- Square footage type by usage is determined (offices, patient care, treatment areas etc.)
- Also research phase to make sure all jurisdictional requirements are addressed
- IP input at this phase can prevent design changes later

DESIGN DEVELOPMENT (DD)

- Often specify types of materials used as well as window and door locations
- Things for IP to look for
 - Are fixtures and finishes acceptable
 - Hand washing sinks number and location
 - ETOH hand rub placement
 - Clean to dirty flow
- Standards document goes with these drawings
- Specifications for everything established by multi-disciplinary team
 - Beautiful flooring is useless if it can't be cleaned

DESIGN DEVELOPMENT

- Project risk assessment is developed
- IP needs to review fixtures, finishes and materials
- DDs are then presented to owner for review and approval

CONSTRUCTION DOCUMENTS (CD – BID DOCUMENTS)

- Once DDs are approved by all parties architect begins on CDs
- CDs have greater details that DDs
- Specifications are incorporated into the drawings
- Once complete, drawings are sent out for bid
- Design build is very common
 - o General contractor is on board from start of DDs
 - General contractor sends out for bids from sub contractors
- IP precautions for dust control are included in these drawings
- Other special IP requirements are also included

Bid Documents



RATAJ-KRUEGER ARCHITECTS, INC.

10777 Sunset Office Dr., Ste. 300, Sunset Hills, MO 63127 (314) 822-4007 www.rkai.net (314) 822-3839 f

INFECTION PREVENTION NOTES

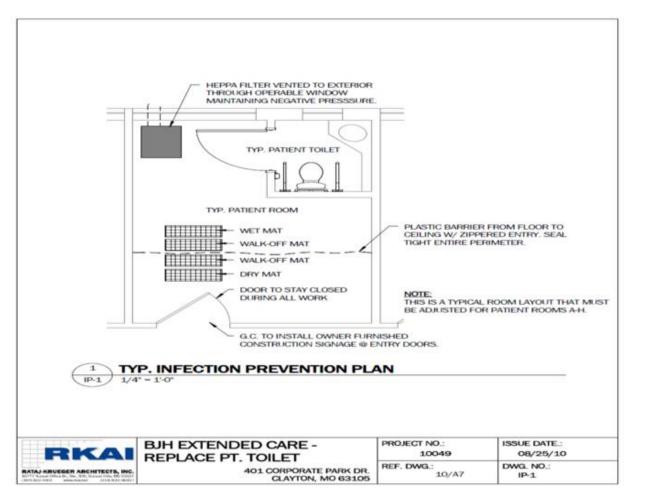
Donald J. Rataj NCARB, principal

Geoffrey L. Crowley AIA, principal

Kurtis R. Krueger NCARB, principal

- THIS PROJECT WILL REQUIRE G.C. TO FILL OUT DAILY (ILSM) INTERIM LIFE SAFETY MANAGEMENT SHEETS.
- ALL WORK AREAS UNDER CONSTRUCTION MUST BE SEALED OFF FROM ADJACENT AREAS.
- NEGATIVE PRESSURE MUST BE MAINTAINED AT ALL TIMES IN CONSTRUCTION AREAS.
- ALL DEBRIS LEAVING CONSTRUCTION AREAS FOR DUMPSTER MUST BE COVERED W/ DAMP COVER & CART WIPED DOWN PRIOR TO LEAVING.
- CONTRACTOR TO MAINTAIN WET MAT, WALK-OFF MAT, BARRIER, & DRY MAT AT ALL CONSTRUCTION ENTRANCES.
- WALK-OFF MATS TO BE CHANGED HOURLY MIN. OR AS NEEDED.
- REFER TO TYP. ROOM LAYOUT DETAIL 10/A7.
- G.C. TO INSTALL OWNER FURNISHED CONSTRUCTION SIGNAGE @ PATIENT ROOM ENTRY DOORS.

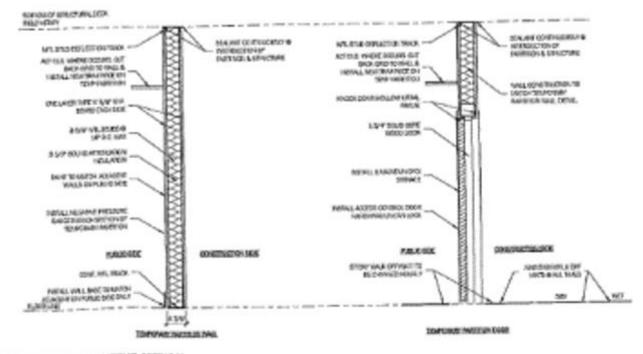
A Good Idea







Bid Documents



GENERAL NOTES:

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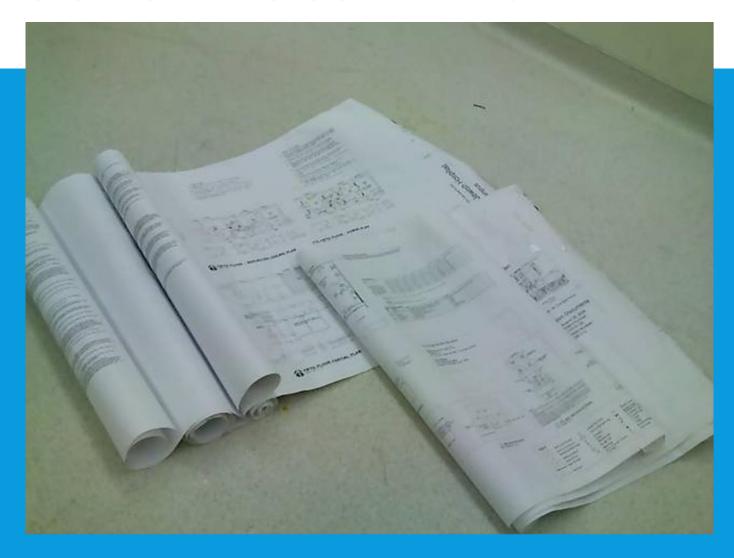
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PARTITION TYPE - TEMP, MEDICAL

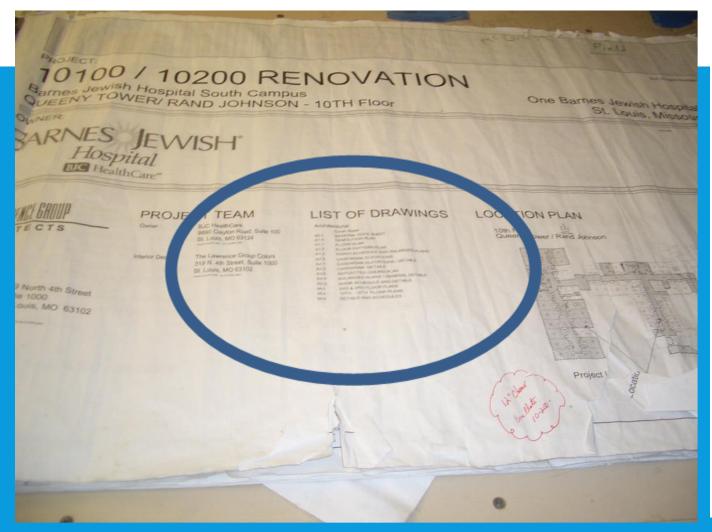
CONSTRUCTION DOCUMENTS

- Don't be intimidated
- Learn the jargon
- You are not expected to be an expert
- ASK QUESTIONS

CONSTRUCTION DOCUMENTS



CONSTRUCTION DOCUMENTS



Mechanical

M-O	MECHANICAL NOTES AND SYMBOLS
M-1	MECHANICAL SPECIFICATIONS
M-2	MECHANICAL SYMBOLS AND ABBREVIATIONS
M-3	MECHANICAL SYMBOLS AND ABBREVIATIONS
M-4	MECHANICAL SCHEDULES AND DETAILS

Plumbing

P-1 PLUMBING SYMBOLS, SPECIFICATIONS, NOTES AND SCHEDULES

P-2 PLUMBING 7TH & 8TH FLOOR DEMOLITION PLUMBING 7TH & 8TH FLOOR NEW WORK

FIRE PROTECTION

FP-1 FIRE PROTECTION SYMBOLS, SPECIFICATIONS NOTES AND SCHEDULES

FP-2 FIRE PROTECTION DEMO AND NEW WORK

Electrical

E-0	ELECTRICAL SPECIFICATIONS AND SYMBOLS
F-1	ELECTRICAL ONE-LINE DIAGRAMS
F-2	ELECTRICAL DEMOLITION PLAN
E-3	ELECTRICAL POWER PLAN NEW WORK
F-4	FLECTRICAL LIGHTING PLAN NEW WORK

ELECTRICAL PLAN - SYSTEMS

CONSTRUCTION PROCESS

- Now the fun begins
- IP needs to maintain high visibility
 - Minimally weekly rounds
- Barriers should be checked before project begins
- Demolition and drywall installation create the most dust
- What adjacent areas are impacted
- How much experience does this contractor have in hospitals
- How many phases is the project
- Good communication
- Weekly meeting attendance ASK QUESTIONS

PRE-CONSTRUCTION RISK ASSESSMENT

- Determines potential hazards prior to start of project
 - Air quality
 - Utilities impact
 - Emergency preparedness
 - Fire/life safety ILSM
 - Noise and vibration
 - o IP requirements
 - Contractor Education



INTERIM LIFE SAFETY MEASURES

- Interim life safety measures (ILSM) were developed in response to an increase in fires in health care facilities due to high-risk construction activities
- ILSMs are put in place when construction activities impact the Life Safety Code (LSC)
- National Fire Protection Agency (NFPA) ILSMs must be used when LSC impacted for >4 hours

Section I - General Information				
Project Name:				
Project Number:				
Project Summary:				
Facility:				
Location Within Facility:				
Project Start Date:				
Estimated Project Duration:				
Estimated Completion Date:				
Number of Phases:				
ILSM Evaluation Date:				
BJC Project Manager:				
BJC Project Manager Phone:				
BJC Project Manager Signature:				
Contractor:				
Contractor Project Manager:				
Contractor Project Manager Phone:	ger Phone:			
Contractor Project Manager Signature:	4			
Project Safety Manager:	20			
Project Safety Manager Phone:	ago			
Project Safety Manager Signature:				
Facility EH&S Representative:				
Facility EH&S Representative Phone:				
acility EH&S Representative Signature:				
Facilities Manager:				
Facilities Manager Phone:				
Facilities Manager Signature:				
Infection Prevention Representative:	Loie Couch			
Infection Prevention Phone:	314-368-2064			
Infection Prevention Signature:				
Addinio al Siano and American India	B. i. a S	-1		
Additional Signatures (may include: De Subcontractors, Clinical Asset Manage		-		
Title	Name	Date		
Note: Your signature will reflect approv	ral of entire risk assessment package.			
If routed via email, routing slip is attached for verification of approval in place of actual				
signatures.				

Date:	
Project:	0
Project Start Date:	1/0/1900
Location(Facility):	0
BJC Project Manager	0
Contractor Project Manager:	0

Instructions: For the designated BJC Project Manager (PM) to use as a tool to ensure that items are completed and/or exchanged as part of the risk assessment process.

İtem
Completed a Pre-Construction/Maintenance Risk Assessment.
Completed an ICRA.
Completed an ILSM, or determined N/A.
Completed a Construction and Demolition Environmental Checklist, or determined N/A.
Exchanged information on the control of hazardous energy sources (lockout/tagout).
Exchanged information on electrical safe work practices/Energized work documents.
Hot work activities to be performed/Hot work permits discussed.
Safety data sheets (availability location discussed).
Required personal protective equipment on the job discussed/agreed.
Required environmental-related permits obtained.
Required Red tag permits discussed.
Additional:
Additional:
Additional:
Project Manager exchanged any required information and provided appropriate documents/forms as
applicable, on behalf of BJC and the specific facility.
Contractors received copies of the relevant core and site-specific policies and procedures.
Contractor and BJC site safety contact and emergency information exchanged.
Contractors agree to send copies of site safety walkthroughs to BJC Risk Management and the facility
safety representatives upon request.

Completed by:

Type of Event	Code Name/Plain	Explanation of Code/Example
Fire	Code Red or Dr. Red	Include Location of fire.
Armed Violent Intruder	Code Silver	Include location of affected area
		NOTE: Plain language can be used for this event as
		well. If using plain language provide direction as
Bomb Threat	No Code or Broad Notification	Notification should be done to a smaller group and no
		code or overhead notification made. It is not typical to
		evacuate during a bomb threat.
Evacuation	Evacuation and Location	Evacuation - unit 9300
Hazardous Material	Hazardous Material Spill and	Hazardous Material Spill - room 2N80
Mass Casualty Event	Mass Casualty - Internal	Used for any patient surge due to internal emergency
	Mass Casualty - External	Used for any patient surge due to external emergency
	Mass Casualty - Decon	Used for any patient surge requiring chemical
	Mass Casualty - Radiation	Used for any patient surge involving radiation
Patient Abduction	Code Pink	Used for any pediatric patient but includes age of
		child and gender (i.e. Code Pink, 3 Male would be
		used for a three year old male) include location.
Security Code	Code White	Used to identify a potential aggressive situation or
		request for a response from a trained security team.
		NOTE: Plain language may be used for this event as
		well (see below)
Security Emergency	Security to <u>(identify location)</u>	Used for security emergency
Severe Weather	Activate Severe Weather Plan	

Classification:	X Construction	Renovatio	n Demolition	Maintenance			
Project Name:	14300 Schukar Patient Division Fi	inishes	Facility:	ВЈН			
Project Number:	2314001000		Location:	West Pavilion			
Evaluation Date:	1/8/2024		Start Date:	2/6/2024			
BJC Project Manager	, , ,	Frank Diebold Contractor: BJH Facilities Co.					
Project Summary	14300 Patient Unit Refresh-Finishes						
Describe the activities and task							
involved in the project.	~						
Category	Potential Hazards/Mitigation Strategies (Examples listed below)	Project Specific Mitigation Strategies Items do not apply, mark N/A in box					
Air Quality/Ventilation	Dust, fumes, mists, vapors, mold.	Air/Duck or	ontrolled - hard parti				
Air Quality/ ventilation	product/task issues, location of makeup	Air/Dust co	ontrolled - nard parti	tions HEPA			
	air, # of air changes, filter testing						
	/maintenance. Assess need for monitoring.						
	/ maintenance. Assess need for monitoring.						
Blood borne Pathogens	Sharps containers, red bags.	N/A					
Barrier Management	Fire wall penetrations and holes (May	To Facilitie	s standards and inspe	ection.ILSM and Permits to be			
- Indiagonicis	require ILSM and/or permit).	posted	- January and Hispi	and i cimits to be			
Emergency Preparedness	Codes, contact lists, action plans		Provided/ to be posted. Organizational correspondence				
	identified/discussed.		distributed detailing project.				
Fire/Life Safety/ILSM	Hot-work, sprinkler/fire alarm shut-off			ing Maintenance staff.			
,,	(Red-tag permit), egress, signage.						
General Safety and	PPE, fall protection (4' Rule), caught	DDE -cofet	u alacces -cafety toe l	boots. Ladder safety.			
Construction Safety hazards	between, struck-by, ladder safety, within	FFE -salet	y glasses -salety toe i	boots. Lauder sarety.			
construction safety nazarus	approach boundary of electrical						
	equipment, etc.						
	equipment, etc.						
Infection Prevention	Insert Risk Category and specific mitigation	ICPA Comr	leted and norted "D	ed" project. Patients are			
miccion Prevention	strategies per ICRA, attach barrier drawing.		to 5200 and 8900 du				
	attategies per icror, attaci barrier drawing.	reiocateu	10 3200 8110 8300 00	ing project.			
Hazardous Materials		***	ls are -no VOC				
nazardous Materiais	Items from Environmental Concerns	All materia	is are -no vuc				
	Checklist, cleaners, medical gases, oxygen,						
	radiation, natural gas. Provide SDS for hazardous chemicals used.						
Mobile Equipment and Vehicle	Emissions tier 3/4, assess need for	N/A					
Operation	spotters, flaggers, inspections, etc.						
Noise/Vibration	Power equipment, demolition, noise &	Some noise	e, Staff to be notified	as work progresses.			
	vibration, assess need to monitor and plan						
willian and Control of C	to mitigate as required.		to all adds doub.	h di t - d tub			
Utilities and Control of Energy	Electrical access hazards, building impact,		to electric devices to	be coordinated with			
Sources	stored energy, lockout/tag out.	Facilities.					
Special Hazards	MRI/Cryogen Safety, MRI quenching,	N/A					
	chemical/biological/ radiological						
	hoods/areas, radar scanner for embedded						
	items						
Security	Access control, panic alarms, badges	Subs badged, access controlled					
Other	Contractor COVID Plan	1. Faceman	k properly donned w	hen within Medical Center,			
			stancing as often as p				
			t hand washing.				
				heck at entry portal before			
		work start,		, and particular and the same			
				ed on badge, readily visible.			
		S. Duny das	essential place	and an addition of the state of			
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t, ry ca /a	areas, radar scanner for		s control, panic alarms, badges

need to be implemented as part of the actions taken.

				Inf	ection Control R	isk <i>i</i>	Assessme	nt (ICRA)		₽ Not Re	quired for Project				
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Far		Roprosontativo:		F	mma Haakr	\vdash		•	\vdash	Shelly Bredy					
CONSTRUCTION ACTIVITY TY						PE									
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			ainting (but not randing) octrical trim work, , and activitios which do not gonorate dust or require cutting of walls or access to ceiling other than for visual inspection												
_	Work		le, short deretion ectivities which creete minimal durt, including but not limited to:												
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		· Minarplumbing													
		Removal of ceiling Installation of tele			inspection puter cabling wing existing '	'J' bee	ke ne wira teave								
		· Removal of coret				2 1140									
		· Accorrtacharosp			<u> </u>										
		· Cutting asmall are	aofau	iall wher	ro durt migration can bo cont	rolled.	ruch ar within a	clared charespaces	ir we ol	f a hopavac while cutti	nq				
	Work				er duration activity (a										
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		· Sandingwall	ilar		quarez ar removal of careuo	-l.									
					quarez or removalor cazeuo J Hook or wire tray inztallat										
		· Major cabling acti			(- 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2										
		· Major domolition													
		· Wall covering or co	ove bare	o romav	al										
		· Now construction													
INFECTION CONTROL RISK GROUPS: Mark "X" in box next to location. Using the following table, identify the patient risk group that will be affected. Consider impact on areas immediatley above, below and or adjacent to the area where the active work is being performed.															
_		Patient/Locat	101 4	l	-			Patientite	-	on Group 2-					
		nier, oxeluding , transplant elinines	_	podiat	ationt aroar EXCEPT adult & ric ancalagy, and bano u transplant	_		Radiology/Pain Procedural Arear							
								,		Special Care Nurseri	or (10001 £ 8F>)				
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_	Nuclear Media	ine		Labor	and Dolivory	_	Contral Storila		_	Inpationt Oncology area					
<u>-</u>	Cardiology			-	aby nursorios		section rooms)	m (including C-) , including choma		Pharmacy, main and all rateliter					
<u>-</u>	Pulmonary fur Echocardings			Podiat	d part op aroar	<u>-</u>	contors, transp Radiation once	plant clinic	_	Cardiac Cath Lab/Hybrid Ors Laundry/Linon Room					
_	Radiology/MF			-	lanagomont Clinic		knifo/Lineara Intenrive Care	<u>ccolorator/Proton</u> Unitr		Outdoor work: <75 feet from an air intake					
	Respiratory T	horapy		\vdash	py Sorvicos	_									
	Wound contor			Ultran	ound										
	Admitting			hallua											
	Officer (e.q.n	a pation& prosont)		Medic-	al Offico Building/Dactars' r										
	EVS			Chape											
	Outdoor work:	>75 foot from air		Pic.		I									

			Construc	ction Activity		. is addition to				
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			Charge serveDepartment / 066					Keinen ale nennn ninnnen ne nealen nernner neglandag ware de applicature.		
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ICRA

- Completed for each project
- May need one for each phase
 - Patient proximity and intensity of work determines precautions
- Reviewed with contractors and project manager
- Barriers should be evaluated prior to work beginning and throughout the project

ICRA

- Type of Barriers
- Project entrance and exit
- Path for debris hauling and equipment hauling
- Elevator useLimited hours of use
- Placement of sticky mats
- Hours of work
- Contact information if work needs to be stopped

ICRA

- Weekly walkthrough with super
- Head laborer
- Different trades on site
- Familiarity with contractors

OTHER CONSTRUCTION SAFETY ISSUES

- How work permit
- Fire watch
- Electrical safety lock out tag out
- Indoor air quality
- Confined work space
- Barrier access permits maintaining fire and smoke compartments

BARRIER ACCESS PERMITS

- Above ceiling permit
- Required by Joint Commission
- Assures integrity of fire stopping above ceiling is maintained
- Must have gone through IP training to obtain permit
- Will be displayed at jobsite
- Electricians usually display on ladder

NOW THE FUN BEGINS

- Make yourself visible and reachable
- Make sure contractors understand your expectations
 - Contractor safety class
- Make time for project walk throughs
- Frequency determined by several factors
 - Contractors time on campus
 - History with contractor previous good and or bad experiences)
 - High risk areas
- Ask questions
- Good communication

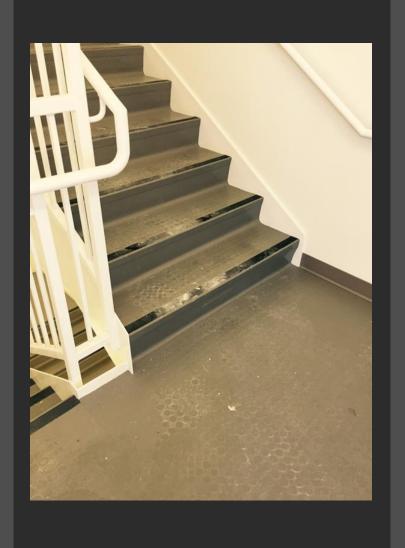
WHAT TO LOOK FOR











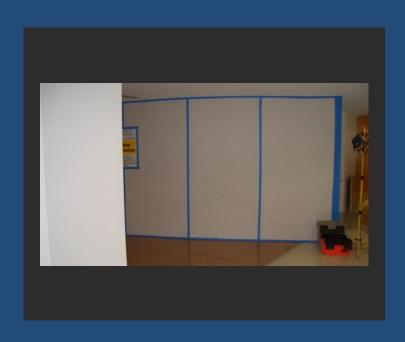






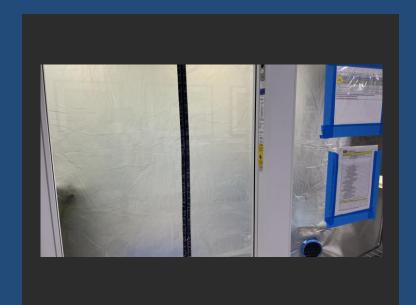












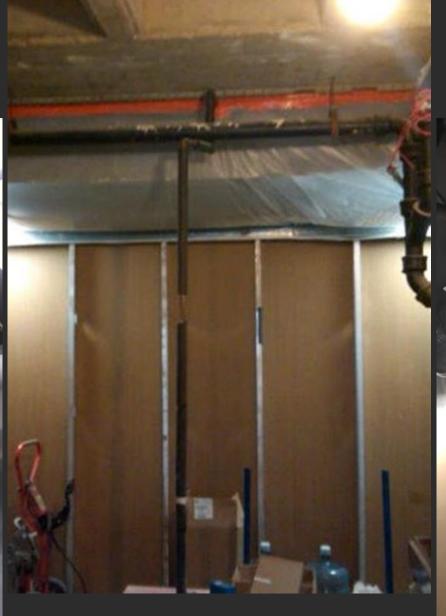














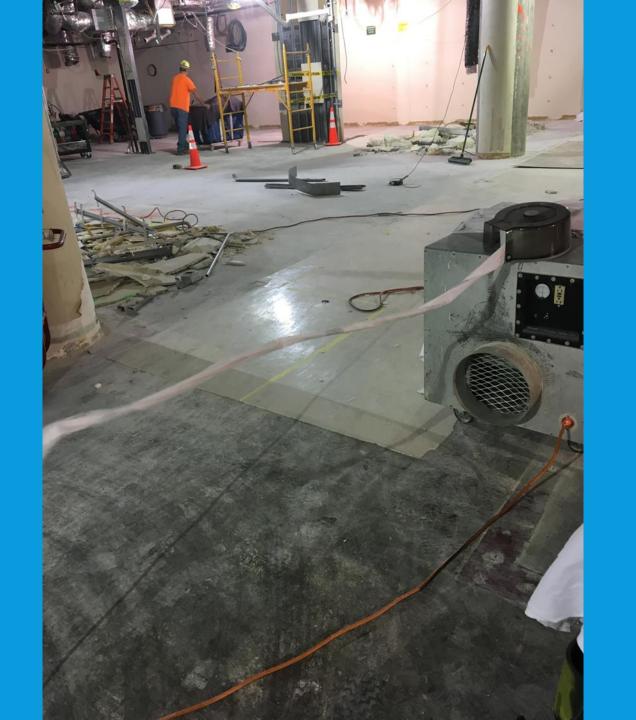












CONSTRUCTION IS FINISHED

- Commissioning
- All systems operating as designed
 Testing done prior to demolition for comparison
- Hand sanitizer and sharps appropriately placed

CONSTRUCTION IS FINISHED

- Area cleaned by contractor
- Area cleaned by EVS
- All water sources run to make sure no stagnant water
- Work with moving team to get patients back to unit
- Unit opens with patients

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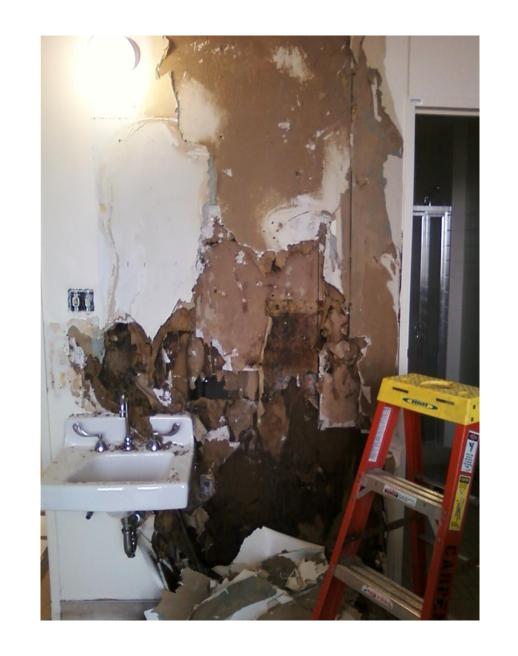
DON'T FORGET

- Your crew of in-house guys
- Planned maintenance
- Every system in the hospital
 - ○Electrical
 - **OPlumbing**
 - OHVAC
 - oFire protection
- Minor emergent issues

FACILITIES ENGINEERING

- Infrastructure failures
 - ODaily issues
 - OUrgent emergent issues
- ICRA for repairs











QUESTIONS?

- Loie Couch, RN, BS, CIC, FAPIC
- · loie.couch@bjc.org
- 314-368-2064

